



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 143390

TO: Phillip Gambel
Location: 3e81 / 3c70
Wednesday, February 02, 2005
Art Unit: 1644
Phone: 272-0844
Serial Number: 08 / 485163

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1a51
Phone: 272-2504
jan.delaval@uspto.gov

Search Notes

This Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 31, 2005, 21:53:18 ; Search time 10474.2 Seconds
(without alignments)
11205.958 Million cell updates/sec

Title: US-08-485-163-4
Perfect score: 2482
Sequence: 1 CAAGCCGAGAGCCCTGGCCAT.....TGAGGAGGACGAGTGGGTC 2482

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues
Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl: *
1: gb_ba: *
2: gb_htg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
8: gb_pl: *
9: gb_pc: *
10: gb_ro: *
11: gb_sls: *
12: gb_sy: *
13: gb_un: *
14: gb_vt: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2482	100.0	2482	6	AR100741 Sequence
2	2482	100.0	2482	6	AR125611 Sequence
3	2482	100.0	2482	6	AR130196 Sequence
4	2482	100.0	2482	6	AR184212 Sequence
5	2482	100.0	2482	6	AR229602 Sequence
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7	1793.4	72.3	2010	9	AR449616
8	1793.8	72.2	2010	9	AR449618
9	1790.2	72.1	2010	9	AR449617
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11	1778	71.6	176237	9	CNS08CBF
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13	1692.8	68.1	4694	6	AX088865
14	1641.2	66.1	4694	6	AX478055
15	1641.2	65.9	169802	6	CNS01DT2
16	1637.8	65.6	3282	6	AR038306
17	1627	65.6	3282	6	AR038320
18	1627	65.6	3282	6	IS58595
19	1627	65.6	3282	6	IS58595 Sequence 15

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c	24	1627	65.6	13254	6	IS58610
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c	29	1626.2	65.5	4723	6	AX088864
c	30	1626.2	65.5	4723	6	AX478054
c	31	1626.2	65.5	4723	6	BD096606
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c	35	1624	65.4	8690	6	BD021874
c	36	1622.4	65.4	8691	6	BD021861
c	37	1621.6	65.3	8614	6	AR176314
c	38	1621.6	65.3	8614	6	AR216773
c	39	1621.6	65.3	8614	6	BD131045
c	40	1621.2	65.3	7874	6	BD021875
c	41	1617.2	65.2	2028	9	HUMIGCD2
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ALIGNMENTS

RESULT 1
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LOCUS AR100741 2482 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 3 from patent US 6083478.
ACCESSION AR100741
VERSION AR100741.1 GI:12811539
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 2482)
AUTHORS Allaway, G.P. and Madden, P.J.
TITLE Non-peptidyl moiety-conjugated CD4-gamma2 and CD4-IgG2
Immunocombinates, and uses thereof
JOURNAL Patent: US 6083478-A 3 04-JUL-2000;
FEATURES
source location/Qualifiers
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/organism="Unknown"
/mol_type="unassigned DNA"

ORIGIN

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DB 1 CAAGCCGAGAGCCCTGGCCATTTCTGTGGGCTCAGATCCCTAAGCCCTTCTCC 60
QY 61 CTGGGCAAGGCGACATTAACCGGGAGTCCCTTTAGGCACTTGCTCTGTGAA 120
DB 61 CTGGGCAAGGCGACATTAACCGGGAGTCCCTTTAGGCACTTGCTCTGTGAA 120
QY 121 CTGGGCTCTCTCCAGCAGCCATTCAGGAAAGAGTGTGGCAAAAAGGGGAT 180
DB 121 CTGGGCTCTCTCCAGCAGCCATTCAGGAAAGAGTGTGGCAAAAAGGGGAT 180
QY 181 AAGTGAAGTACCTGTAAGCTTCCAGGAAGAGCATATTCAGTGAAGAAC 240
DB 181 AAGTGAAGTACCTGTAAGCTTCCAGGAAGAGCATATTCAGTGAAGAAC 240
QY 241 TCACCAAGATTAAGATTCTGGGAATCAGGGCTCTCTTAATAAAGTCCATCCAG 300
DB 241 TCACCAAGATTAAGATTCTGGGAATCAGGGCTCTCTTAATAAAGTCCATCCAG 300

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Db      241  TCCAAACAGATTAAGATTCTGGAAATCAGGGCTCTTCTTAACATAAGGTCATCCAAAG 300
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Db      301  CTGAATGATGGCGCTGACTCAAGAAAGACCTTTGGGACCAAGAAACCTTCCCTGATC 360
Qy      361  ATCAAGATCTTAAAGATGAAGACTCAGATACATTACATCTGTGAAGTGAAGACCAAG 420
Db      361  ATCAAGATCTTAAAGATGAAGACTCAGATACATTACATCTGTGAAGTGAAGACCAAG 420
Qy      421  GAGAGGTGCAATTGCTAGTGTGGATTTGACTGCAACTTGACACCCACTGCTTCAG 480
Db      421  GAGAGGTGCAATTGCTAGTGTGGATTTGACTGCAACTTGACACCCACTGCTTCAG 480
Qy      481  GGGGAGGCTGACCTGACCTTGGAGAGCCCCCTGTAGTACCCCTCACTGCAATGT 540
Db      481  GGGGAGGCTGACCTGACCTTGGAGAGCCCCCTGTAGTACCCCTCACTGCAATGT 540
Qy      541  AGGAGTCCAAAGGGGTAAACATACAGGGGGGAAAGACCTCTCCGTGTCTCAGCTGAG 600
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Db      601  CTCAGAGTATGCGCACTGCAATGCACTGTCTTGCAAAACCAAGAAAGGTGAGTTTC 660
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Db      841  ACCTTCCAGCTGTCTACAGATCCCTCAAGAGACTCTACCTCCCTCAGAGGTGTGATCAG 900
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Db      961  ACCAAGGTGACAAAGACGTTGTGAGAGGCTCAGCTCAGGAGGAGGAGGTGTCTGAGA 1020
Qy      1021  AGCCAGGCTCAGCCCTCTGCTGAGAGCAACCCGCGCTGTGACAGCCCAAGCCAGGAG 1080
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Qy      1081  CAAGGAGGCCCCCATCTGTCTCTCAACCCGAGAGGCTCTGCGCGCCCACTCATGTCTAG 1140
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Qy      1141  GGAAGAGGTCTTCTGTGGCTTTTTCACAGAGCTCCAGGCAAGCAAGGTGTGAGTCCCTTA 1200
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Qy      1201  CCCGAGGCTTTCACACAGAGGAGGTGTGAGGCTCAGAGCTGCAAAAGCCATATCC 1260
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Qy      1321  TCGGACACCTTCTCTCTCCAGATCCGAGTACTCCCAATCTTCTCTGCAAGGCGCA 1380
Db      1321  TCGGACACCTTCTCTCTCCAGATCCGAGTACTCCCAATCTTCTCTGCAAGGCGCA 1380
Qy      1381  AATGTGTGTGAGTGGCCACCGGTGCCAGTAAAGCCAGGCCAGGGCTCGCCCTCAGCT 1440
Db      1381  AATGTGTGTGAGTGGCCACCGGTGCCAGTAAAGCCAGGGCTCGCCCTCAGCT 1440
Qy      1441  CAAGGCGGGAAGAGTGGCTTAAAGTACCTGCAATCCAGGAGCAAGGCCCACTGTGGTCT 1500
Db      1441  CAAGGCGGGAAGAGTGGCTTAAAGTACCTGCAATCCAGGAGCAAGGCCCACTGTGGTCT 1500
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Db      1621  GTGTGAGCGTGAACCAAGAGACCCGAGGTCCAGTTCACTGTGACGTGACGAGCTG 1680
Qy      1681  GAGGTGATTAATGCAAGACAAAGCCAGGAGAGGAGTTCAACAGCAAGTTCCGTGTG 1740
Db      1681  GAGGTGATTAATGCAAGACAAAGCCAGGAGAGGAGTTCAACAGCAAGTTCCGTGTG 1740
Qy      1741  GTGAGGTCTCTCAGCTGTGTGCAACAGGACTGAGTGAACGGCAAGAGTCAAGTGAAG 1800
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Qy      1801  GTCTCCAAAGAGGCTCCAGGCCCATCGAAGAAACCATCTTCCAAACCAAGGTGGG 1860
Db      1801  GTCTCCAAAGAGGCTCCAGGCCCATCGAAGAAACCATCTTCCAAACCAAGGTGGG 1860
Qy      1861  ACCGCGGGGTATGAGGGGCAATGACAGAGGCGGCTGAGCCACCTCTGCTGCTGGG 1920
Db      1861  ACCGCGGGGTATGAGGGGCAATGACAGAGGCGGCTGAGCCACCTCTGCTGCTGGG 1920
Qy      1921  AGTGAACGCTGTGCAACCTCTGTCCCTACAGGGCAAGCCCGAAGACCAAGGTGAC 1980
Db      1921  AGTGAACGCTGTGCAACCTCTGTCCCTACAGGGCAAGCCCGAAGACCAAGGTGAC 1980
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Qy      2161  CACCGTGAACAGAGCAGGTGAGAGCAGGAGAAAGTCTTCTCATGTCTCCGTGAGTATGA 2220
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Qy      2221  GGTCTTGCACACCACTACACGAGAAAGAGCTCTCTCTGCTTCTCGGGTAAATGAGTGGC 2280
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Qy      2281  AGGCGGGAAGGCCCCGCTCCCAAGGCTCTCGGGGTGTGAGTGAAGTCTTGGCAAGTA 2340
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Qy      2341  CCCGTTATACATCTTCCAGAGCAACCCAGATGGAATTAAGCAACCCAGGCTGCGCTGG 2400
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 03:40:26 ; Search time 7912.19 Seconds
(without alignment)

11430.900 Million cell updates/sec

Title: US-08-485-163-4
Perfect score: 2482
Sequence: 1 CAAGCCGAGAGCCCTGCGCAT.....TGAGGAGGACAGATGGGTC 2482

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:
1: gb_est1:
2: gb_est2:
3: gb_hic:
4: gb_est3:
5: gb_est4:
6: gb_est5:
7: gb_est6:
8: gb_gse1:
9: gb_gse2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	720.2	29.0	1231	3	CR592363 full-length
2	713.2	28.7	1224	3	CR625121 full-length
3	688.6	27.7	1158	3	CR623267 full-length
4	674.6	27.2	1194	3	CR603811 full-length
5	672.6	27.1	1060	3	CR602446 full-length
6	668.4	26.9	788	5	BX429840 full-length
7	665.6	26.8	1012	3	CR595292 full-length
8	663.6	26.7	1120	3	CR594421 full-length
9	659.4	26.6	805	5	BX429839 full-length
10	655.4	26.4	932	5	BX438745 full-length
11	645.4	26.0	783	6	CD609192 5606931J
12	644.4	26.0	904	5	BX351808 full-length
13	643.6	25.9	1113	3	CR611470 full-length
14	642.8	25.9	816	4	BX429780 full-length
15	642.2	25.9	812	5	BX429780 full-length
16	640.6	25.8	1097	3	CR590214 full-length
17	640.6	25.8	1097	3	CR594498 full-length
18	635.8	25.6	785	5	BX429838 full-length
19	635.2	25.6	1287	3	CR611016 full-length
20	634.6	25.6	902	3	CR608756 full-length
21	634.6	25.6	918	3	CR597050 full-length
22	634.6	25.6	975	3	CR608814 full-length
23	634.6	25.6	1091	3	CR604840 full-length
24	634.6	25.6	1091	3	CR611575 full-length

25	633.6	25.5	1089	3	CR599517 full-length
26	633.6	25.5	1090	3	CR594433 full-length
27	633.4	25.5	801	4	B1822118 603039813
28	632.6	25.5	1089	3	CR604209 full-length
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32	629.6	25.4	1086	3	CR606727 full-length
33	629	25.3	840	4	B1838893 603087279
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35	625.6	25.2	1224	3	CR609874 full-length
36	624.2	25.1	1142	3	CR598316 full-length
37	623.2	25.1	1078	3	CR602414 full-length
38	622.6	25.1	1039	5	BX355903 full-length
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41	620.8	25.0	1120	3	CR619868 full-length
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ALIGNMENTS

RESULT 1	CR592363	1231 bp	mRNA	linear	HTC 21-JUL-2004
LOCUS	CR592363				
DEFINITION	full-length cDNA clone CS0DE006YX04 of Placenta of Homo sapiens (human).				
ACCESSION	CR592363				
VERSION	CR592363.1	GI:50473170			
KEYWORDS	HTC; CNSLT cDNA.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
AUTHORS	Li, W.B., Gruber, C., Jessee, J., and Polayes, D.				
TITLE	Full-length cDNA libraries and normalization				
JOURNAL	Unpublished				
REMARK	Contact : Feng Liang Email : fliang@life.techn.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue 2 (bases 1 to 1231)				
REFERENCE	Genoscope.				
AUTHORS	Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage				
TITLE	BP 191 91006 EVRY cedex - FRANCE (E-mail : seque@genoscope.cns.fr				
JOURNAL	- Web : www.genoscope.cns.fr				
COMMENT	1st strand cDNA was primed with a NotI-oligo(dt) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen.				
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Best Local Similarity	87.0%; Pred. No. 4.1e-167;				
Matches	857; Conservative 0; Mismatches 28; Indels 100; Gaps 2;				
Oy	1395 TGCCACGCGCCGAGTGAAGCAGCAGGCGCTCGCCTCAGCTCAAGCGGAGCAGG				1454
Db	344 TGCCACATGTGCAAGTGAAGCAGCAGGCGCTCGCCTCAGCTCAAGCGGAGCAGG				403

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QY      1455 TGCCCTAGAGTAGCCTGCATCCAGGACAGGCCCCAGCTGGGTGCTGACAGTCCACTC 1514
Db      404 TGCCCTAGAGTAGCCTGCATCCAGGACAGGCCCCAGGCTGTGACAGTCCGCTC 463
QY      1515 CATCTCTTCTCAGACC--ACCTGTGGCAGAGCCGTCACTCTTCTTCCCCCAA 1571
Db      464 CATCTCTTCTCAGACCCTTGAACCCCTGGGGGACCCGTCACTCTTCTTCCCCCAA 523
QY      1572 ACCAAGGACACCCATGATCTCCCGGACCCCTGAGGTCAAGTGGGTGGTGGAGCT 1631
Db      524 ACCAAGGATACCCCTCATGATCTCCCGGACCCCTGAGGTCAAGTGGGTGGTGGAGCT 583
QY      1632 GAGCCACGAAGACCCCGAGGTCCAGTTCACTGTGACGTGACGCGCTGGAGTGCATTA 1691
Db      584 GAGCCACGAAGACCCCTGAGTCCAGTTCACTGTGACGTGACGCGCTGGAGTGCATTA 643
QY      1692 TGCCAAAGCAAAAGCCGAGAGAGAGCACTTCAACGACGTTCCGTGTGTCAAGCTCT 1751
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QY      1752 CACCGTGTGACACGAGCTGGTGAAGGAGGAGGATCAAGTGAAGTCTCCACAA 1811
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QY      1812 AGGCTCCAGACCCCATCGAAGAAACCATCTCCAAAACCAAAGGTGGGACCCGCGGGGT 1871
Db      764 AGGCTCCAGACCCCATCGAAGAAACCATCTCCAAAACCAA----- 805
QY      1872 ATGAGGGCCACATGAGACAGAGCGGGCTCGGCCACCTCTGCCCTGGAGTGAACGCTG 1931
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Db      806 -----AGGGCAGCCCGAGAAACCAAGTGTACACCTTGCCCCAT 846
QY      1992 CCGGAGAGAGATGACCAAGAAACAGTCAAGCTGACCTGCTGGTCAAAAGCTTCTTACC 2051
Db      847 CCGGAGAGAGATGACCAAGAAACAGTCAAGCTGACCTGCTGGTCAAAAGCTTCTTACC 906
QY      2052 CGAGGACATGCGGTGGAGTGGAGAGCAATGGGACGCGGAGAACCACTACAAAGCA 2111
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Db      967 CACCTCCATGTGGACCTCGACGCGCTCTTCTCTTACAGCAAGTTCACCGTGGACA 1026
QY      2172 AGAGCAGTGGCAGCAGGAGGAAAGTCTTCTCATGCTCCGTATGATGAGGCTTGACCA 2231
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QY      2232 ACCACTACACGAGAAAGCTCTTCTCTGCTCCGGTAAATGAGTGCACGCGCGGCAA 2291
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QY      2292 GCGCCCGCTCCCGAGGCTCTCGGGGTGCGGTGAGGATGCTTGGACGTAACCCCGTGTACA 2351
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QY      2352 TACTTCCAGGACCCAGCATGAA 2376
Db      1207 TACTTCCCGGAGCCACGATGAA 1231

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RESULT 2
CR625121 1224 bp mRNA linear HTC 21-JUL-2004
LOCUS CR625121
DEFINITION of Homo sapiens (human).
ACCESSION CR625121
VERSION CR625121.1 GI:50505928

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KEYWORDS HTC; CNSLT cDNA.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 1224)
AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact: Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/InvitrogenCorporation1600
Faraday Avenue
2 (bases 1 to 1224)
REFERENCE Genoscope.
AUTHORS Direct Submission
TITLE Submitted (20-JUL-2004) Genoscope - Centre National de Sequenage :
JOURNAL BP 191 91006 Evry cedex - FRANCE (E-mail: seqref@genoscope.cns.fr)
COMMENT - Web : www.genoscope.cns.fr)
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
source
1..1224
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/clone="CS0D1015YH20"
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ORIGIN
Query Match 28.7%; Score 713.2; DB 3; Length 1224;
Beet Local Similarity 86.9%; Pred. No. 2,2e-165;
Matches 850; Conservative 0; Mismatches 28; Indels 100; Gaps 2;
QY 1395 TGCCACCGTGCCAGGTAAAGCCAGCCAGGCTCGCCCTTCAGACTCAAGGCGGAGCAGG 1454
Db 344 TGCCACCAATGTGAAATTAAGCCAGCCAGGCTCGCCCTTCAGACTCAAGGCGGAGCAGG 403
QY 1455 TGCCCTAGAGTAGCCTGCATCCAGGACAGGCCCCAGCTGGGTGCTGACAGTCCACTTC 1514
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QY 1515 CATCTCTTCTCAGACC--ACCTGTGGCAGAGCCGTCACTCTTCTTCCCCCAA 1571
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QY 1572 ACCAAGGACACCCATGATCTCCCGGACCCCTGAGGTCAAGTGGGTGGTGGAGCT 1631
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QY 1812 AGGCTCCAGACCCCATCGAAGAAACCATCTCCAAAACCAAAGGTGGGACCCGCGGGGT 1871
Db 764 AGGCTCCAGACCCCATCGAAGAAACCATCTCCAAAACCAA----- 805
QY 1872 ATGAGGGCCACATGAGACAGAGCGGGCTCGGCCACCTCTGCCCTGGAGTGAACGCTG 1931
Db 806 ----- 805

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 00:31:21 ; Search time 1195.54 Seconds
(without alignments) 10898.026 Million cell updates/sec

Title: US-08-485-163-4
Perfect score: 2482
Sequence: 1 CAAGCCGAGAGCCCTGCGCAT.....TGAGGAGAGCAGATGGGTC 2482

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues
Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 10: geneseqn2003cs:*
- 11: geneseqn2003ds:*
- 12: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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8	2261.6	91.1	2482	2	AAQ57751
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22	1626.2	65.5	3256	10	AB224641
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34	1624.6	65.5	3223	12	ADN61720
35	1624.4	65.4	13254	3	AAQ32151
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ALIGNMENTS

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DT	25-MAR-2003	(revised)
DT	06-FEB-1993	(first entry)
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XX		
KM	homodimer; soluble CD4; T cell receptor; CD4 antigen; high recovery;	
XX	chimeric; increased serum half life; HIV infection; AIDS; se.	
OS	Homo sapiens.	
XX	Chimeric.	
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XX		
PF	10-FEB-1992;	92WO-US001143.
XX		
PR	08-FEB-1991;	91US-00653684.
XX		
PA	(PROG-) PROGENICS PHARM INC.	

XX Beaudry GA, Maddon PJ;
 XX WPI: 1992-300034/36.
 DR P-PSDB; AAR26783.
 XX CD4-gamma-2 and CD4-IgG2 chimera(s) and expression vectors - for
 PT treatment, prevention and diagnosis of HIV infection.
 XX Claim 13; Fig 4; 90pp; English.
 XX This sequence encodes a CD4-gamma2 chimeric heavy chain homodimer. Human
 CC CD4 cDNA was excised from plasmid pSP674 as an EcoRI/StuI 0.7 kb
 CC fragment, and cloned into M13mp18 forming M13mp18(CD4). This was
 CC linearised with PstI, and the SacII(Eluab)/PstI fragment from pBR gamma2
 CC containing human gamma2 heavy chain (CH1 exon) isolated and ligated to
 CC the M13mp18(CD4) vector. Resulting recombinants were then screened by
 CC restriction analysis for the presence of both CD4 and CH1 which occur in
 CC tandem CD4(EcoRI/StuI)-CH1(SacI/Eluab)/PstI. Site directed mutagenesis
 CC was performed to juxtapose the CD4 and CH1 heavy chain sequences in
 CC frame. The resulting chimeric DNA molecule encodes a protein containing
 CC the VJ2 domain of CD4 fused to the CH1 domain of heavy chain. Plaques
 CC containing the chimeric gene with the correct sequence were then grown in
 CC TGI cells and RT DNA isolated from the cells. (Updated on 25-MAR-2003 to
 CC correct PN field.) (Updated on 24-OCT-2003 to standardise OS field)
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 SQ Sequence 2482 BP; 559 A; 812 C; 676 G; 435 T; 0 U; 0 Other;

Query Match 100.0%; Score 2482; DB 2; Length 2482;
 Basic Local Similarity 100.0%; Pred. No. 0;
 Matches 2482; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 09:02:41 ; Search time 1340.46 Seconds
(without alignments)
10639.123 Million cell updates/sec

Title: US-08-485-163-4

Perfect score: 2482
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4300275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	1795	72.3	2009	US-10-047-542-55	Sequence 55, Appli
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6	1641.2	66.1	4694	US-09-948-939-41	Sequence 41, Appli
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ALIGNMENTS

RESULT 1
US-08-485-163-4
; Sequence 4, Application US/08485163
; Publication No. US20020098191A1
GENERAL INFORMATION:
APPLICANT: Beauty, Gary A.
APPLICANT: Maddon, Paul J.
TITLE OF INVENTION: CD4-GAMMA2 CD4-1932 CHIMERAS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,163
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37690-II-1-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:

LENGTH: 2482 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: homo sapien
CELL TYPE: lymphocyte
US-08-485-163-4

Query Match 100.0%; Score 2482; DB 8; Length 2482;
Bseq Local Similarity 100.0%; Pred. No. 0;
Matches 2482; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 03:49:56 ; Search time 211.903 Seconds
(without alignments)
8325.401 Million cell updates/sec

Title: US-08-485-163-4

Perfect score: 2482

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Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued Patents NA:

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2482	100.0	2482	3	US-08-379-516-3
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4	2482	100.0	2482	3	US-08-485-372A-3
5	2482	100.0	2482	3	US-09-409-006A-3
6	2482	100.0	2482	4	US-08-484-681-3
7	2482	100.0	2482	4	US-09-766-995-3
8	2482	100.0	2482	5	PCT-US93-07422-3
9	1692.8	68.2	10785	3	US-08-444-644-27
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28	1626.2	65.5	4723	3	US-08-758-417A-218	Sequence 218, App
29	1624.8	65.5	4926	3	US-09-042-353-418	Sequence 418, App
30	1624.8	65.5	4926	3	US-08-758-417A-268	Sequence 268, App
31	1621.6	65.3	8614	3	US-09-247-352-5	Sequence 5, App
32	1621.6	65.3	8614	3	US-09-466-635-5	Sequence 5, App
33	1617.2	65.2	2029	2	US-07-916-098A-43	Sequence 43, App
34	1617.2	65.2	2399	4	US-08-070-116A-1	Sequence 1, App
35	1617.2	65.2	2399	4	US-08-557-050-1	Sequence 1, App
36	1617.2	65.2	2560	2	US-07-916-098A-44	Sequence 44, App
37	1601.4	64.5	10844	3	US-08-444-644-41	Sequence 41, App
38	1601.4	64.5	10844	3	US-08-232-246A-41	Sequence 41, App
39	1581.8	63.7	1999	4	US-09-472-087-54	Sequence 54, App
40	1574.6	63.4	2770	4	US-09-227-595-29	Sequence 29, App
41	1574.6	63.4	2770	4	US-08-595-508B-29	Sequence 29, App
42	1573	63.4	2009	1	US-08-109-106-5	Sequence 5, App
43	1570	63.3	11528	3	US-08-444-644-18	Sequence 18, App
44	1570	63.3	11528	3	US-08-232-246A-18	Sequence 18, App
45	1495.4	60.2	1980	1	US-08-109-106-4	Sequence 4, App

ALIGNMENTS

RESULT 1
US-08-477-460B-3
Sequence 3, Application US/08477460B
Patent No. 6034223
GENERAL INFORMATION:
APPLICANT: Progenics Pharmaceuticals, Inc.
TITLE OF INVENTION: NON-PEPTIDYL MOIETY-CONJUGATED
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08477,460B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,931
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41215-A-PCT/JPM/JM
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9550
TELEFAX: (212) 977-9809
TELEX: 422523 COOP UT
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2482 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: homo sapien
CELL TYPE: Lymphocyte
US-08-477-460B-3
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GenCore version 5.1.6
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Run on: January 31, 2005, 21:53:18 ; Search time 4848.84 Seconds
(without alignments)
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Gapop 10.0 , Gapext 1.0

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 13: gb_un:*
- 14: gb_vl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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9	696.8	60.6	2482	6	AR184212
10	696.8	60.6	2482	6	AR229602
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ALIGNMENTS

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DEFINITION Sequence 5 from patent US 6083478.
ACCESSION AR100742
VERSION AR100742.1 GI:12811540
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 1149)
AUTHORS Allaway,G.P. and Madden,P.J.
TITLE Non-peptidyl moiety-conjugated CD4-gamma2 and CD4-IgG2
JOURNAL Immunofluorescence, and uses thereof
FEATURES
source location/Qualifiers
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/organism="Unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 1149; DB 6; Length 1149;
Best Local Similarity 100.0%; Pred. No. 3.2e-292; Indels 0; Gaps 0;
Matches 1149; Conservative 0; Mismatches 0;

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DB 1 CAAGCCGAGAGCCCTGCTCCATTTCTGTGGCTCAGGTCCTTCTGCTGCA 60

QY 1 CTGGCGAAGGCGCAATTAACCGGGAGTCCCTTTTGAAGCACTTCTGCTGCA 120
DB 1 CTGGCGAAGGCGCAATTAACCGGGAGTCCCTTTTGAAGCACTTCTGCTGCA 120

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DB 1 CTGGCGCTCTCTCCAGCAGCACTCAGGGAAGAAGTGCTGGCAAAAAGGGAT 180

QY 1 ACAGTGAATGACCTGTGACGCTTCCAGGAAGAAGACATCAATTCCTGGAATA 240
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QY 1 TCACGAGATTAAGATTCTGGGAATCAGGGCTCTCTTAACTAAAGTCCATCCAG 300
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Db      241 TCACACGAGTAAAGATCTTGGGAAATCAGGGCTCTCTTAACTAAAGGTCATCCAG 300
Qy      301 CTGAATGATCGCGCTGACTCAAGAGAAAGCTTTGGGACCAAGAACTTCCCTGATC 360
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Qy      361 ATCAAGATCTTAAAGATGAAGACTCAGATATCTTACATCTGTGAAGTGAAGACAGAG 420
Db      361 ATCAAGATCTTAAAGATGAAGACTCAGATATCTTACATCTGTGAAGTGAAGACAGAG 420
Qy      421 GAGAGGTGCAATTTGCTAGTGTGGATTTGATGCTCACTTGAACCCACCTGCTTAC 480
Db      421 GAGAGGTGCAATTTGCTAGTGTGGATTTGATGCTCACTTGAACCCACCTGCTTAC 480
Qy      481 GGGCAGAGCTGACCCCTGACCTTGAAGAGCCCTGCTGATGACCCCTGATGATGT 540
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Db      541 AGAGTCCAAAGGGTAAACATACAGGGGGGAAAGACCTCTCCGTGTCTCAGCTGAG 600
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Db      601 CTCAGAGTATGTGGCACTTGACATGCACTGTCTTGCAGAACCAAGAAAGTGAAGTTC 660
Qy      661 AAAATAGACATGCTGCTGCTAGCTTTCACTGAGCTGACACATGCTTCACTTCCG 720
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Qy      721 CCATCTGATGAGAGTTGAAATCTGAACTGCTCTGTGTGTGCTGCTGATTAATCTTC 780
Db      721 CCATCTGATGAGAGTTGAAATCTGAACTGCTCTGTGTGTGCTGCTGATTAATCTTC 780
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Db      1021 CCCACAGCTGCTCAAGTTCAGAGCTGACCCCTCCCACTCTTGGCTCTGACCTTTT 1080
Qy      1081 TCACAGAGGAGCACTACCTATTTGCGGTCTTCAAGCTCATCTTCACTCAACCCCTC 1140
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Qy      1141 CTCTCTCTT 1149
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RESULT 2
ARI25612      1149 bp      DNA      linear      PAT 16-MAY-2001
LOCUS        Sequence 5 from patent US 6177549.
DEFINITION   ARI25612
ACCESSION   ARI25612.1 GI:14111674
VERSION      ARI25612.1
KEYWORDS     Unknown.
SOURCE       Unknown.
ORGANISM     Unknown.

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REFERENCE    Unclassified.
AUTHORS      1 (bases 1 to 1149)
TITLE        Maddon, P.J. and Allaway, G.P.
JOURNAL      Non-peptidyl moiety-conjugated CD4-gamma2 and CD4-IgG2
FEATURES     immunoconjugates, and uses thereof
SOURCE       Patent: US 6177549-A 5 23-JAN-2001;
              Location/Qualifiers
              1. 1149
              /organism="unknown"
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ORIGIN
Query Match 100.0%; Score 1149; DB 6; Length 1149;
Best Local Similarity 100.0%; Pred. No. 3.2e-292;
Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 CAAAGCCAGAGCCCTGCAATTTCTGTGGGTCAAGGTCCCTAAGTCTAGGCCCTTCTCC 60
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Qy      121 CTGGCGCTCTCCAGAGGCACTCAAGGAAAGAGTGTGCTGGCAAAAAAGGGAT 180
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Qy      181 ACAGTGAATCTGACCTGTATAGCTTCCAGAGAAAGCATATCACTGGAAAAAC 240
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Qy      361 ATCAAGATCTTAAAGATGAAGACTCAGATATCTTACATCTGTGAAGTGAAGACAGAG 420
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Qy      421 GAGAGGTGCAATTTGCTAGTGTGGATTTGATGCTCACTTGAACCCACCTGCTTAC 480
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Qy      481 GGGCAGAGCTGACCCCTGACCTTGAAGAGCCCTGCTGATGACCCCTGATGATGT 540
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Db      601 CTCAGAGTATGTGGCACTTGACATGCACTGTCTTGCAGAACCAAGAAAGTGAAGTTC 660
Qy      661 AAAATAGACATGCTGCTGCTAGCTTTCACTGAGCTGACACATGCTTCACTTCCG 720
Db      661 AAAATAGACATGCTGCTGCTAGCTTTCACTGAGCTGACACATGCTTCACTTCCG 720
Qy      721 CCATCTGATGAGAGTTGAAATCTGAACTGCTCTGTGTGTGCTGCTGATTAATCTTC 780
Db      721 CCATCTGATGAGAGTTGAAATCTGAACTGCTCTGTGTGTGCTGCTGATTAATCTTC 780
Qy      781 TATCCCAAGAGGCCAAAGTCAAGTGAAGGTGATTAAGCTTCACTGCTGATCTCC 840
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Qy      841 CAGAGAGTGTCAAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAG 900

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OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 03:40:26 / Search time 3662.81 Seconds
(without alignments)
11430.900 Million cell updates/sec

Title: US-08-485-163-6
Perfect score: 1149
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 32822875 seqs, 18219865908 residues
Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: gb_est2.*
3: gb_hnc.*
4: gb_est3.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_gest1.*
9: gb_gest2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	642.8	55.9	816	4 BI838409	BI838409 60308373
4	633.4	55.1	801	4 BI822118	BI822118 603039813
5	632	55.0	822	5 BX457159	BX457159 BX457159
6	630.2	54.8	840	4 BI838693	BI838693 603087279
7	623.4	54.3	791	4 BI819727	BI819727 603041415
8	586.6	51.1	713	5 BX437619	BX437619 BX437619
9	553.4	48.2	723	4 BI915265	BI915265 603184313
10	551.4	48.0	679	6 CD609191	CD609191 56069931H
11	549	47.8	732	1 AUI41298	AUI41298 AUI41298
12	533.8	46.5	754	7 CO246446	CO246446 AGENCOURT
13	533.4	46.4	710	6 CF125444	CF125444 UI-HF-EL0
14	528.8	46.0	694	6 CB052686	CB052686 NISC_g109
15	525.6	45.7	803	7 CO249540	CO249540 AGENCOURT
16	502.4	43.7	748	5 BX378811	BX378811 BX378811
17	497.8	43.3	821	7 CO245985	CO245985 AGENCOURT
18	474.4	41.3	816	6 CP125140	CP125140 UI-HF-EL0
19	453.6	39.5	605	7 CO248694	CO248694 AGENCOURT
20	453	39.4	640	5 BU679704	BU679704 UI-CF-EC1
21	452.6	39.4	751	7 CO248544	CO248544 AGENCOURT
22	451.8	39.3	641	5 BQ062789	BQ062789 AGENCOURT
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24	451.4	39.3	555	4 BI711498	BI711498 id97ell.x

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c	26	451.4	39.3	593	6 CB985747	CB985747 AGENCOURT
c	27	451.4	39.3	611	6 CA413070	CA413070 UI-H-EX0
c	28	451.4	39.3	620	4 BM511892	BM511892 iJ75d09.x
c	29	451.4	39.3	643	6 CA412343	CA412343 UI-H-EX0
c	30	451.4	39.3	648	5 BM974791	BM974791 UI-CF-EC1
c	31	451.4	39.3	692	6 CA447921	CA447921 UI-H-EX0
c	32	451.4	39.3	712	5 BU616742	BU616742 UI-H-DF0
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c	40	450.4	39.2	606	6 CB957735	CB957735 AGENCOURT
c	41	450.4	39.2	643	5 BQ712156	BQ712156 AGENCOURT
c	42	450.4	39.2	927	5 BQ706352	BQ706352 AGENCOURT
c	43	450.2	39.2	714	6 CA411822	CA411822 UI-H-EX0
c	44	450	39.2	521	6 CB956541	CB956541 AGENCOURT
c	45	450	39.2	527	1 AU708624	AU708624 AU708624

ALIGNMENTS

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DEFINITION BX438745 Homo sapiens PLACENTA Homo sapiens cDNA clone CS0DB002YG01
5-PRIME, mRNA sequence.
ACCESSION BX438745
VERSION BX438745.2 GI:47035651
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS L1,W.B., Gruber,C., Jesse,J., and Polayes,D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On May 15, 2003 this sequence version replaced gi:30787731.

Contact: Genoscope
Genoscope - Centre National de Sequencage
Bp 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with NotI and cloned
into the NotI and EcoRV sites of the pCMVSPORT 6 vector. Library
was not normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
This sequence belongs to sequence cluster 6485.x
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?cs=CS0DB002AD01Q1&c=6485.r.
Location/Qualifiers
1..932

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double-strand cDNA was digested with NotI and cloned into
the NotI and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."

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Best Local Similarity 98.1%; Pred. No. 1.8e-117;
Matches 674; Conservative 0; Mismatches 11; Indels 2; Gaps 1;

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QY 69 GGGCCACAATGACCGGGGAGTCCCTTTTGAAGCACTTCTGTGTCTGCACTGGGCT 128
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QY 249 GATTAATATTTCTGGGAAATCAGGGCTCTCTTTTAACTAAAGGTCAATCCAGTGA 308
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QY 489 CTTGACCTGACCTTGGAGAGAGCCCTGGAGTGAAGCCCTCAGTGAATGTGAGAGTCC 548
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QY 549 AAGGGTAAACATACAGGGGGGAGAGACCTTCCGTCTCAGTGTGAGCTCCAGGA 608
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DB 713 TAGTGGCACTGACATGCACTGTCTTGACAGAACCAAGAGGTGAGTTCAAAATGA 772
QY 669 CATGTGTGTGCTGCTTCACTGTGC 695
DB 773 CATGTGTGTGCTGCTTCAAGAGGC 799

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RESULT 2
LOCUS CD609192 783 bp mRNA linear EST 12-JAN-2004
DEFINITION S606993101 FLP Homo sapiens cDNA, mRNA sequence.
ACCESSION CD609192
VERSION CD609192.1 GI:40257455
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

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REFERENCE
AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Fu, G.K., Wang, Y.T., Yang, J., Au-Young, J., and Stuve, L.L.
JOURNAL Circular rapid amplification of cDNA ends for high-throughput
COMMENT extension cloning of partial genes
Genomics 84 (1), 205-210 (2004)
Contact: Fu GK
Incyte Genomics, Inc.
3160 Porter Dr., Palo Alto, CA 94304, USA
Tel: 6508454102
Email: gfu@incyte.com.
Location/Qualifiers
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Source
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/mol_type="mRNA"
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Best Local Similarity 98.1%; Pred. No. 1,1e-168;
Matches 664; Conservative 0; Mismatches 11; Indels 2; Gaps 1;

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ORIGIN
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QY 79 AACGGGGAGTCCCTTTTGGGCACTTCTGTGTGTGCACTGGGCTCCCTCCAGCA 138
DB 723 AACGGGGAGTCCCTTTTGGGCACTTCTGTGTGTGCACTGGGCTCCCTCCAGCA 664
QY 139 GCCACTCAGGGAAGAAAGTGTGCTGGGCAAAAAGGGATACAGTGAATGACCTGT 198
DB 663 GCCACTCAGGGAAGAAAGTGTGCTGGGCAAAAAGGGATACAGTGAATGACCTGT 604
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DB 603 ACACTTCCCAAGAGAGCATATTCACCTGAAAAAATCCAAACGATPAAGATT 544
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DB 543 CTGGGAATAGGGCTCCTTTTAACTAAAGTCCAAAGCTGAATGATCGCGTAC 484
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DB 423 GAAGACTCAGATATCTTACATCTGTGAAGTGGAGACCAAGAGAGGTGCAATTGCTA 364
QY 439 GTTTTGGATTTGACCTGCACTGTGACCACTGACCACTGCTTCAAGGGGCAAGCCCTG 498
DB 363 GTTTTGGATTTGACCTGCACTGTGACCACTGACCACTGCTTCAAGGGGCAAGCCCTG 304
QY 499 ACCTTGAGAGAGCCCTGGTGTAGAGCCCTCAGTGAATGTAGAGTCCAAAGGGTAA 558
DB 303 ACCTTGAGAGAGCCCTGGTGTAGAGCCCTCAGTGAATGTAGAGTCCAAAGGGTAA 244
QY 559 AACATACAGGGGGGAGAAACCTTCTCGTGTCTCAGCTGAGCTCCAGATAGTGACAC 618
DB 243 AACATACAGGGGGGAGAAACCTTCTCGTGTCTCAGCTGAGCTCCAGATAGTGACAC 184
QY 619 TGGACATGCACTCTTTTGGGAAACCAAGAAAGTGAAGTTCAAAATGACATCTGTG 678
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QY 679 CTAGCTTTCAGTGTGC 695
DB 123 CTAGCTTTCAGAGAGGC 107

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RESULT 3
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DEFINITION 603083373F1 NIH_MGC_120 Homo sapiens cDNA clone IMAGE:5222323 5',
ACCESSION B1838409
VERSION B1838409.1 GI:15949959
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
1 B1838409 816 bp mRNA linear EST 04-OCT-2001
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Mammalia; Euteleostomi; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 816)

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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(without alignment)
10898.026 Million cell updates/sec

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Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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3: geneseqn2000s:*
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12: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	1149	100.0	1149	10	ABSS5722
6	1149	100.0	1149	11	ADMI18323
7	1147.4	99.8	1149	2	AAQ57752
8	1147	99.8	1149	2	AAQ27832
9	1107	96.3	1128	10	ACH00964
10	1062	92.4	3273	10	ACH00965
11	698.4	60.8	2482	2	AAQ27831
12	696.8	60.6	2482	2	AAQ28089
13	696.8	60.6	2482	3	AAZ98856
14	696.8	60.6	2482	4	AAAF56396
15	696.8	60.6	2482	4	AAAF77830
16	696.8	60.6	2482	10	ABSS5721
17	696.8	60.6	2482	11	ADMI18321
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20	687	59.8	1421	2	AAQ38760
21	687	59.8	1448	2	AAQ38759

22	687	59.8	1742	3	AAA35205	AAa35205 Human ade
23	687	59.8	1742	3	AAAF21327	AAf21327 Human low
24	687	59.8	1742	4	AAI65462	AAi65462 Nucleotid
25	687	59.8	1742	10	ABZ57021	ABz57021 Human nuc
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27	687	59.8	1742	11	ABD20870	ABd20870 Human pul
28	687	59.8	1796	2	AAQ28088	AAq28088 Encodes C
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35	687	59.8	6019	3	AAA35208	AAa35208 Human ade
36	687	59.8	6019	3	AAAF21330	AAf21330 Human low
37	687	59.8	6019	10	ABZ57024	ABz57024 Human nuc
38	687	59.8	6019	11	ABD20873	ABd20873 Human pul
39	685.4	59.7	1742	1	AAH80512	AAh80512 Clone PT4
40	685.4	59.7	1742	1	AAH90619	AAh90619 pT4B enco
41	685.4	59.7	1742	2	AAZ20695	AAz20695 Human T4
42	685.4	59.7	1742	2	AAAF56352	AAf56352 DNA encod
43	685.4	59.7	2465	2	AAQ38758	AAq38758 sCD4-PCad
44	683.8	59.5	1273	1	AAH90763	AAh90763 CDNA sequ
45	683.8	59.5	1273	3	AAA10906	AAa10906 T4 glycop

ALIGNMENTS

RESULT 1	AAQ28090	standard; DNA; 1149 BP.
ID	AAQ28090	
XX	AAQ28090;	
AC	XX	
DT	24-OCT-2003 (revised)	
DT	25-MAR-2003 (revised)	
DT	06-FEB-1993 (first entry)	
DE	Encodes CD4-IgG2 chimeric light chain.	
DE	XX	
KW	homodimer; soluble CD4; T cell receptor; CD4 antigen; high recovery;	
KW	chimeric; increased serum half life; HIV infection; AIDS; ss.	
OS	Homo sapiens.	
OS	Chimeric.	
XX	XX	
PH	Key	Location/Qualifiers
FT	CDS	/tag= a*
FT		/label= CD4 domain
FT	CDS	/tag= b*
FT		/label= Ckappa domain
XX	W09213947-A1.	
XX	20-AUG-1992.	
XX	10-FEB-1992; 92WO-US001143.	
XX	08-FEB-1991; 91US-00653684.	
XX	(PROG-) PROGENICS PHARM INC.	
XX	Beaudry GA, Maddon PJ;	
XX	WPI; 1992-300034/36.	
XX	P-PSDB; AAR26784.	
XX	CD4-gamma-2 and CD4-IgG2 chimera(s) and expression vectors - for	
XX	treatment, prevention and diagnosis of HIV infection.	

PS Claim 14; Fig 5; 90bp; English.

CC This sequence encodes a CD4-kappa chimeric light chain. Human kappa light
CC chain constant region encoding sequence was excised from the plasmid
CC pCDKappa light as an MseI fragment. This was blunt ended and ligated to
CC M13mp18 at the HincII site. After transforming TGI cells the recombinants
CC are screened by restriction analysis for the presence and correct
CC orientation of the insert. If DNA is then isolated, and the purified
CC vector then ligated to the EcoRI/StuI fragment of human CD4 cDNA. The
CC resulting recombinants are then verified by the presence and orientation
CC of both inserts containing in tandem CD4 (EcoRI/StuI).
CC Chkappa (MseI/FluII)/MseI (FluII). Site directed mutagenesis is then
CC performed with an oligonucleotide containing sequences which join the
CC last codon encoding Phe (179) from HIV2 of CD4 to the first codon of the
CC kappa light chain constant domain (encoding Thr). (Updated on 25-MAR-2003
CC to correct P1 field.) (Updated on 24-OCT-2003 to standardise OS field)

XX Sequence 1149 BP; 294 A; 337 C; 282 G; 236 T; 0 U; 0 Other;

Query Match 100.0%; Score 1149; DB 2; Length 1149;

Best Local Similarity 100.0%; Pred. No. 6,7e-301;

Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CAAGCCNAGGCTTCCGATTTCTGTGGCTCAGGTCCCTTACTGCTCAAGCCCTTCTCC 60
DB 1 CAAGCCNAGGCTTCCGATTTCTGTGGCTCAGGTCCCTTACTGCTCAAGCCCTTCTCC 60
QY 61 CTGGGCAAGGCGCACATGAACCGGGGAGTCCCTTTTGGGCACTTGCTTGCTGCTGCA 120
DB 61 CTGGGCAAGGCGCACATGAACCGGGGAGTCCCTTTTGGGCACTTGCTTGCTGCTGCA 120
QY 121 CTGGGCTCTCTCCGAGCAGCTCAAGGAAAGAAAGTGTGTCTGGGCAAAAAAGGGGAT 180
DB 121 CTGGGCTCTCTCCGAGCAGCTCAAGGAAAGAAAGTGTGTCTGGGCAAAAAAGGGGAT 180
QY 121 CTGGGCTCTCTCCGAGCAGCTCAAGGAAAGAAAGTGTGTCTGGGCAAAAAAGGGGAT 180
DB 121 CTGGGCTCTCTCCGAGCAGCTCAAGGAAAGAAAGTGTGTCTGGGCAAAAAAGGGGAT 180
QY 181 ACAATGGAATCTGACCTGTACAGCTTCCCAAGAAAGAGCATCAATTCCATGGAAGAAC 240
DB 181 ACAATGGAATCTGACCTGTACAGCTTCCCAAGAAAGAGCATCAATTCCATGGAAGAAC 240
QY 181 ACAATGGAATCTGACCTGTACAGCTTCCCAAGAAAGAGCATCAATTCCATGGAAGAAC 240
DB 181 ACAATGGAATCTGACCTGTACAGCTTCCCAAGAAAGAGCATCAATTCCATGGAAGAAC 240
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DB 241 TCCAAACAGATTAAGATTCTGGGAAATCAAGGCTCTTCTTAATAAGAGTCCATCCAG 300
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QY 421 GAGAGGATGCAATGCTAGTGTGGATGATGCTGCAACCTGACACCCACCTGCTCAG 480
DB 421 GAGAGGATGCAATGCTAGTGTGGATGATGCTGCAACCTGACACCCACCTGCTCAG 480
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QY 481 GGGGAGAGCTGACCTGACCTTGGAGAGCCCCCTGTGTAGTACCCCTCAGTCAATGT 540
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DB 661 AAAATAGACATCGTGTGCTGCTTCACTGTGCTGACCAATCTGCTTCACTTCCG 720
QY 661 AAAATAGACATCGTGTGCTGCTTCACTGTGCTGACCAATCTGCTTCACTTCCG 720
DB 661 AAAATAGACATCGTGTGCTGCTTCACTGTGCTGACCAATCTGCTTCACTTCCG 720
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DB 721 CCATCTGATGAGCAGTTGAAATCTGAACTGCTCTGTGTGCTCTGCTGATTAATTC 780

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DB 721 CCATCTGATGAGCAGTTGAAATCTGAAACTGCTCTGTGTGCTCTGCTGATTAATTC 780
QY 781 TATCCAGAGAGGCAAAAGTACAGTGAAGTGAATTAAGCCCTCCAAATGGGTAATCC 840
DB 781 TATCCAGAGAGGCAAAAGTACAGTGAAGTGAATTAAGCCCTCCAAATGGGTAATCC 840
QY 841 CAGAGAGTGTCAAGAGCAGAGCAGCAGAGAGCAGCAGCCTTACAGCCTCAGCAGACCTG 900
DB 841 CAGAGAGTGTCAAGAGCAGAGCAGCAGAGAGCAGCAGCCTTACAGCCTCAGCAGACCTG 900
QY 901 ACCTGAGCAGAAAGCAGCTACGAGAAACAAAGTCTACCCCTGCGAAGTCAACCATCAG 960
DB 901 ACCTGAGCAGAAAGCAGCTACGAGAAACAAAGTCTACCCCTGCGAAGTCAACCATCAG 960
QY 961 GGCCTGAGCTGGCCCGTCAAAAGAGCTTCAACAGGGGAGAGTGAAGAGGAGAGTGC 1020
DB 961 GGCCTGAGCTGGCCCGTCAAAAGAGCTTCAACAGGGGAGAGTGAAGAGGAGAGTGC 1020
QY 1021 CCCGACCTGCTCTCAGTTTCAAGCTGACCCCTCCATCCTTGGCTGACCCCTTTT 1080
DB 1021 CCCGACCTGCTCTCAGTTTCAAGCTGACCCCTCCATCCTTGGCTGACCCCTTTT 1080
QY 1081 TCCACAGAGGAGCTACCCCTTATGCGGCTCTCCAGTCACTTTTACCTCAACCCCTTC 1140
DB 1081 TCCACAGAGGAGCTACCCCTTATGCGGCTCTCCAGTCACTTTTACCTCAACCCCTTC 1140
QY 1141 CTCCTCCTT 1149
DB 1141 CTCCTCCTT 1149

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RESULT 2
AA298857
ID AA298857 standard; DNA; 1149 BP.

AC AA298857;
DT 19-JUN-2000 (first entry)
XX

DE CD4-kappa chimeric light chain nucleotide sequence.
XX
XX
XX CD4-kappa chimeric light chain; immunoglobulin; treatment; CD4-IgG2;
XX cytotoxic radionuclide; cell surface glycoprotein; prevent; infection;
XX cellular immune response interaction mediator; HIV interaction; staging;
XX prognosis; envelope glycoprotein burden; human; ds.
OS Homo sapiens.
XX
XX US6034223-A.
XX
XX 07-MAR-2000.
XX
XX 07-JUN-1995; 95US-00477460.
XX
XX 07-AUG-1992; 92US-00927931.
XX 06-AUG-1993; 93MO-US007422.
XX 03-FEB-1995; 95US-00379516.
XX
XX (PROG-) PROGENICS PHARM INC.
XX
XX Allway GP, Maddon PU;
XX
XX WPI; 2000-269502/23.
XX
XX P-PSDB; AAY85018.
XX
XX New immunoglobulin, used to treat, prevent or image human immune
XX deficiency virus infection, comprises radionuclide attached to
XX heterotetramer of CD4-immunoglobulin chimerae.
XX
XX Disclosure; Fig 5; 58pp; English.
XX
XX This sequence represents the CD4-kappa chimeric light chain nucleotide
XX sequence of the CD4-IgG2 chimeric heterotetramer. The invention relates

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 1, 2005, 09:02:41 ; Search time 620.542 Seconds
(without alignments)
10639.123 Million cell updates/sec

Title: US-08-485-163-6
Perfect score: 1149
Sequence: 1 CAAGCCGAGAGCCCTGCGCAT.....TCACCCCTCTCTCTCTT 1149

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4300275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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- 20: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1107	96.3	11228	16	US-10-397-569-6
4	1062	92.4	3273	16	US-10-397-569-7
5	996.8	60.6	2482	8	US-08-485-163-4
6	996.8	60.6	2482	9	US-09-766-995-3
7	687	59.8	1742	14	US-10-151-274-7
8	687	59.8	1742	16	US-10-641-643-1013
9	687	59.8	1796	8	US-08-485-163-2
10	687	59.8	1796	9	US-09-766-995-1
11	685.4	59.7	1742	11	US-09-891-119A-8
12	683.8	59.5	1273	11	US-09-891-119A-1

13	683.8	59.5	1416	15	US-10-157-408-2	Sequence 2, Appli
14 <td>683.8<th>59.5</th><th>1416</th><th>18</th><th>US-10-097-044A-2</th><th>Sequence 2, Appli</th></td>	683.8 <th>59.5</th> <th>1416</th> <th>18</th> <th>US-10-097-044A-2</th> <th>Sequence 2, Appli</th>	59.5	1416	18	US-10-097-044A-2	Sequence 2, Appli
15 <td>683.8<th>59.5</th><th>1416</th><th>18</th><th>US-10-769-247-2</th><th>Sequence 2, Appli</th></td>	683.8 <th>59.5</th> <th>1416</th> <th>18</th> <th>US-10-769-247-2</th> <th>Sequence 2, Appli</th>	59.5	1416	18	US-10-769-247-2	Sequence 2, Appli
16 <td>660.4<th>57.5</th><th>1745</th><th>15</th><th>US-10-024-329-1</th><th>Sequence 1, Appli</th></td>	660.4 <th>57.5</th> <th>1745</th> <th>15</th> <th>US-10-024-329-1</th> <th>Sequence 1, Appli</th>	57.5	1745	15	US-10-024-329-1	Sequence 1, Appli
17 <td>655.4<th>57.0</th><th>1304</th><th>10</th><th>US-09-939-537-28</th><th>Sequence 28, Appli</th></td>	655.4 <th>57.0</th> <th>1304</th> <th>10</th> <th>US-09-939-537-28</th> <th>Sequence 28, Appli</th>	57.0	1304	10	US-09-939-537-28	Sequence 28, Appli
18 <td>655.4<th>57.0</th><th>3084</th><th>15</th><th>US-10-207-655-169</th><th>Sequence 169, App</th></td>	655.4 <th>57.0</th> <th>3084</th> <th>15</th> <th>US-10-207-655-169</th> <th>Sequence 169, App</th>	57.0	3084	15	US-10-207-655-169	Sequence 169, App
19 <td>652.4<th>56.8</th><th>719</th><th>18</th><th>US-09-939-537-30</th><th>Sequence 30, Appli</th></td>	652.4 <th>56.8</th> <th>719</th> <th>18</th> <th>US-09-939-537-30</th> <th>Sequence 30, Appli</th>	56.8	719	18	US-09-939-537-30	Sequence 30, Appli
20 <td>612<th>53.3</th><th>617</th><th>18</th><th>US-10-493-676-7</th><th>Sequence 7, Appli</th></td>	612 <th>53.3</th> <th>617</th> <th>18</th> <th>US-10-493-676-7</th> <th>Sequence 7, Appli</th>	53.3	617	18	US-10-493-676-7	Sequence 7, Appli
21 <td>612<th>53.3</th><th>1377</th><th>15</th><th>US-10-103-597A-38</th><th>Sequence 38, Appli</th></td>	612 <th>53.3</th> <th>1377</th> <th>15</th> <th>US-10-103-597A-38</th> <th>Sequence 38, Appli</th>	53.3	1377	15	US-10-103-597A-38	Sequence 38, Appli
22 <td>612<th>53.3</th><th>1377</th><th>15</th><th>US-10-188-444-38</th><th>Sequence 38, Appli</th></td>	612 <th>53.3</th> <th>1377</th> <th>15</th> <th>US-10-188-444-38</th> <th>Sequence 38, Appli</th>	53.3	1377	15	US-10-188-444-38	Sequence 38, Appli
23 <td>612<th>53.3</th><th>8911</th><th>16</th><th>US-10-612-192-3</th><th>Sequence 3, Appli</th></td>	612 <th>53.3</th> <th>8911</th> <th>16</th> <th>US-10-612-192-3</th> <th>Sequence 3, Appli</th>	53.3	8911	16	US-10-612-192-3	Sequence 3, Appli
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26 <td>610.4<th>53.1</th><th>1599</th><th>10</th><th>US-09-939-537-3</th><th>Sequence 3, Appli</th></td>	610.4 <th>53.1</th> <th>1599</th> <th>10</th> <th>US-09-939-537-3</th> <th>Sequence 3, Appli</th>	53.1	1599	10	US-09-939-537-3	Sequence 3, Appli
27 <td>610.4<th>53.1</th><th>1599</th><th>11</th><th>US-09-243-008-3</th><th>Sequence 3, Appli</th></td>	610.4 <th>53.1</th> <th>1599</th> <th>11</th> <th>US-09-243-008-3</th> <th>Sequence 3, Appli</th>	53.1	1599	11	US-09-243-008-3	Sequence 3, Appli
28 <td>610.4<th>53.1</th><th>1728</th><th>10</th><th>US-09-939-537-1</th><th>Sequence 1, Appli</th></td>	610.4 <th>53.1</th> <th>1728</th> <th>10</th> <th>US-09-939-537-1</th> <th>Sequence 1, Appli</th>	53.1	1728	10	US-09-939-537-1	Sequence 1, Appli
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32 <td>609<th>53.0</th><th>609</th><th>17</th><th>US-10-466-836-24</th><th>Sequence 24, Appli</th></td>	609 <th>53.0</th> <th>609</th> <th>17</th> <th>US-10-466-836-24</th> <th>Sequence 24, Appli</th>	53.0	609	17	US-10-466-836-24	Sequence 24, Appli
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34 <td>539.8<th>47.0</th><th>1508</th><th>15</th><th>US-10-157-408-5</th><th>Sequence 5, Appli</th></td>	539.8 <th>47.0</th> <th>1508</th> <th>15</th> <th>US-10-157-408-5</th> <th>Sequence 5, Appli</th>	47.0	1508	15	US-10-157-408-5	Sequence 5, Appli
35 <td>539.8<th>47.0</th><th>1508</th><th>15</th><th>US-10-097-044A-5</th><th>Sequence 5, Appli</th></td>	539.8 <th>47.0</th> <th>1508</th> <th>15</th> <th>US-10-097-044A-5</th> <th>Sequence 5, Appli</th>	47.0	1508	15	US-10-097-044A-5	Sequence 5, Appli
36 <td>539.8<th>47.0</th><th>1508</th><th>18</th><th>US-10-769-247-5</th><th>Sequence 5, Appli</th></td>	539.8 <th>47.0</th> <th>1508</th> <th>18</th> <th>US-10-769-247-5</th> <th>Sequence 5, Appli</th>	47.0	1508	18	US-10-769-247-5	Sequence 5, Appli
37 <td>539<th>46.9</th><th>2379</th><th>14</th><th>US-10-073-118-25</th><th>Sequence 25, Appli</th></td>	539 <th>46.9</th> <th>2379</th> <th>14</th> <th>US-10-073-118-25</th> <th>Sequence 25, Appli</th>	46.9	2379	14	US-10-073-118-25	Sequence 25, Appli
38 <td>538<th>46.8</th><th>563</th><th>14</th><th>US-10-073-118-24</th><th>Sequence 24, Appli</th></td>	538 <th>46.8</th> <th>563</th> <th>14</th> <th>US-10-073-118-24</th> <th>Sequence 24, Appli</th>	46.8	563	14	US-10-073-118-24	Sequence 24, Appli
39 <td>537<th>46.7</th><th>1113</th><th>9</th><th>US-09-759-841-5</th><th>Sequence 5, Appli</th></td>	537 <th>46.7</th> <th>1113</th> <th>9</th> <th>US-09-759-841-5</th> <th>Sequence 5, Appli</th>	46.7	1113	9	US-09-759-841-5	Sequence 5, Appli
40 <td>534<th>46.5</th><th>534</th><th>9</th><th>US-09-934-060A-25</th><th>Sequence 25, Appli</th></td>	534 <th>46.5</th> <th>534</th> <th>9</th> <th>US-09-934-060A-25</th> <th>Sequence 25, Appli</th>	46.5	534	9	US-09-934-060A-25	Sequence 25, Appli
41 <td>534<th>46.5</th><th>1769</th><th>9</th><th>US-09-934-060A-12</th><th>Sequence 12, Appli</th></td>	534 <th>46.5</th> <th>1769</th> <th>9</th> <th>US-09-934-060A-12</th> <th>Sequence 12, Appli</th>	46.5	1769	9	US-09-934-060A-12	Sequence 12, Appli
42 <td>534<th>46.5</th><th>2159</th><th>9</th><th>US-09-934-060A-1</th><th>Sequence 1, Appli</th></td>	534 <th>46.5</th> <th>2159</th> <th>9</th> <th>US-09-934-060A-1</th> <th>Sequence 1, Appli</th>	46.5	2159	9	US-09-934-060A-1	Sequence 1, Appli
43 <td>534<th>46.5</th><th>2159</th><th>9</th><th>US-09-934-060A-3</th><th>Sequence 3, Appli</th></td>	534 <th>46.5</th> <th>2159</th> <th>9</th> <th>US-09-934-060A-3</th> <th>Sequence 3, Appli</th>	46.5	2159	9	US-09-934-060A-3	Sequence 3, Appli
44 <td>457.2<th>39.4</th><th>928</th><th>15</th><th>US-10-321-845-5</th><th>Sequence 5, Appli</th></td>	457.2 <th>39.4</th> <th>928</th> <th>15</th> <th>US-10-321-845-5</th> <th>Sequence 5, Appli</th>	39.4	928	15	US-10-321-845-5	Sequence 5, Appli
45 <td>451.4<th>39.3</th><th>913</th><th>9</th><th>US-09-822-830A-531</th><th>Sequence 531, App</th></td>	451.4 <th>39.3</th> <th>913</th> <th>9</th> <th>US-09-822-830A-531</th> <th>Sequence 531, App</th>	39.3	913	9	US-09-822-830A-531	Sequence 531, App

ALIGNMENTS

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US-08-485-163-6
; Sequence 6, Application US/08485163
; Publication No. US20020098191A1
; GENERAL INFORMATION:
; APPLICANT: Beaudry, Gary A.
; TITLE OF INVENTION: CD4-GAMMA2 CD4-IgG3 CHIMERAS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,163
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 37690-II-1-PCT-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:

LENGTH: 1149 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: unknown
 MOLECULE TYPE: cdna
 ORIGINAL SOURCE:
 ORGANISM: homo sapien
 CELL TYPE: lymphocyte
 US-08-485-163-6

Query Match 100.0%; Score 1149; DB 8; Length 1149;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
 US-09-766-995-5
 Sequence 5, Application US/09766995
 Patent No. US20020052481A1
 GENERAL INFORMATION:
 APPLICANT: Graham P. Allaway et al.
 TITLE OF INVENTION: NON-PERFIDIL MOIETY-CONJUGATED CD4-GAMMA2 AND CD4-19G2 IMMUNOCONJ
 FILE REFERENCE: 2048/41215-CB/JPW/SHS
 CURRENT APPLICATION NUMBER: US/09/766,995
 NUMBER OF SEQ ID NOS: 9
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 5
 LENGTH: 1149
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-766-995-5

Query Match 100.0%; Score 1149; DB 9; Length 1149;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OM nucleic - nucleic search, using sw model1

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Perfect score: 1149
Sequence: 1 CAGGCCGAGAGCCCTGCCAT.....TCACCCCTCTCTCTCTT 1149

Scoring table: IDENTITY_NUC
Gap 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	1149	100.0	1149	3	US-09-329-916-5
4	1149	100.0	1149	3	US-08-485-372A-5
5	1149	100.0	1149	3	US-09-409-006A-5
6	1149	100.0	1149	4	US-08-484-681-5
7	1149	100.0	1149	4	US-09-766-995-5
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13	696.8	60.6	2482	3	US-09-409-006A-3
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18	687	59.8	1421	5	PCT-US92-08090-3
19	687	59.8	1448	5	PCT-US92-08090-2
20	687	59.8	1742	3	US-09-517-605-7
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25	687	59.8	1796	3	US-08-485-372A-1
26	687	59.8	1796	3	US-09-409-006A-1
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29	687	59.8	1796	5	PCT-US93-07422-1	Sequence 1, Appli
30	687	59.8	2465	5	PCT-US92-08090-1	Sequence 1, Appli
31	685.4	59.7	1742	3	US-08-466-368-3	Sequence 1, Appli
32	685.4	59.7	1742	4	US-08-470-998-1	Sequence 1, Appli
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34	683.8	59.5	1273	3	US-08-466-368-1	Sequence 1, Appli
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ALIGNMENTS

RESULT 1
US-08-477-460B-5
Sequence 5, Application US/08477460B
Patent No. 6034223
GENERAL INFORMATION:
APPLICANT: Progenics Pharmaceuticals, Inc.
TITLE OF INVENTION: NON-PEPTIDYL MOIETY-CONJUGATED
TITLE OF INVENTION: CD4-GMMA2 AND CD4-IgG2 IMMUNOCONJUGATES, AND USES THEREOF
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESS: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,460B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,931
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41215-A-PCT/JPM/AJM
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9550
TELEFAX: (212) 977-9809
TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1149 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cdna
ORIGINAL SOURCE:
ORGANISM: homo sapien
CELL TYPE: lymphocyte
US-08-477-460B-5
Query Match 100.0%; Score 1149; DB 3; Length 1149;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CAAGCCAGAGCCCTGCAATTTCTGTGGGCTCAGGTCCTTACTGAGCCCTTCTCC 60
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RESULT 2
US-08-379-516-5
; Sequence 5, Application US/08379516
; Patent No. 6083478
; GENERAL INFORMATION:
; APPLICANT: Allaway, Graham P.
; TITLE OF INVENTION: No. 6083478-Peptidyl Moiety-Conjugated CD4-Gamma2 and CD4-IgG2
; FILE REFERENCE: 41215-A-PCT-US
; CURRENT APPLICATION NUMBER: US/08/379,516
; EARLIER FILING DATE: 1993-08-06
; EARLIER FILING DATE: 1993-08-06
; EARLIER FILING DATE: 1992-08-07
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-379-516-5

Query Match 100.0%; Score 1149; DB 3; Length 1149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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